national application	No.
T/KR02/02251	

A.	CLASSIFICATION	OF	SUBJECT	MATTER
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IPC7 G02B 1/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02B 1/00, 1/10, 5/00, 5/23

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patent and Applications for Inventions since 1947

Korean Utility Models and Applications for Utility Models since 1947

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) eKipass

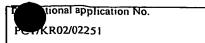
C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
x	US 5,166,345 A (Toray Industries, Inc.) 24 Nov. 1992	1,2	
Y	see column 9 lines 4-14	3,4	
	US 4,756,973 A (Kureha Kagaku Kogyo Kabushiki Kaisha) 12 Jul. 1988		
Y	see colume 2 lines 23-45	1	
Y	see column 3 line 55 - column 4 line 58	1-3	
Y	see column 9 lines 11-25, see column 11 lines 12-19	4	
Y	US 5,581,090 A (Solartech Enterprises, LLC) 3 Dec. 1996	1,2	
	see claim1, column 5 line 57 - column 6 line 48		
A	US 4,994,208 A (PPG Industries, Inc.) 19 Feb. 1991	1-4	
	see the whole document		
Α	US 4,929,693 A (Toray Industries, Inc.) 29 May 1990	1-4	
	see the whole document		
A	US 5,833,885 A (Pilkington PLC.) 10 Nov. 1998	1-4	
	see the whole document		
		1	

X	Further documents are listed in the continuation of Box C.		See patent family annex.	
*	Special categories of cited documents:	"T"		
"A"	document defining the general state of the art which is not considered		date and not in conflict with the application bu	
	to be of particular relevance		the principle or theory underlying the invention	
"E"	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed in considered novel or cannot be considered to in	
"L"	document which may throw doubts on priority claim(s) or which is		step when the document is taken alone	voive an inventive
	cited to establish the publication date of citation or other	"Y"	•	vention cannot be
	special reason (as specified)	•	considered to involve an inventive step when	
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	means		being obvious to a person skilled in the art	*
"P"	document published prior to the international filing date but later	"&"	- ·	
	than the priority date claimed			
Date	of the actual completion of the international search	Date	te of mailing of the international search report	
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	28 APRIL 2003 (28.04.2003)		29 APRIL 2003 (29.04.2003)	
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	Korean Intellectual Property Office			A Sea Silvery
	920 Dunsan-dong, Seo-gu, Daejeon 302-701,		KIM, Sang Hee	LIME
M.	Republic of Korea		-	

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant			
	US 6,194,511 B1 (Tokuyama Corporation) 27 Feb. 2001 see the whole document	1-4	
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